NATURAL HISTORY MISCELLANEA

Published by

The Chicago Academy of Sciences

Lincoln Park - 2001 N. Clark St., Chicago 14, Illinois

No. 97 February 8, 1952

The Status of "Triaenops wheeleri" Osgood

Colin Campbell Sanborn*

Since the description of *Triaenops wheeleri* Osgood, it has been suggested (Anthony, 1941) that it might be synonymous with *A sellia stoliczkana* Dobson from Penang, an island off the west coast of the Malay Peninsula. When returning from the Rush Watkins Zoological Expedition to Siam in 1949, a day's stop in Calcutta provided an opportunity to visit the Indian Museum where permission was given to examine the type of *stoliczkana*.

The type is preserved in alcohol and bears a label stating "Cat. No. 123a, Register No. 8946. A sellia stoliczkana Dobson, Type, Penang, (Malay Peninsula) Dr. F. Stoliczka-1871." The skin is faded, the wings are very fragile with many broken bones, the nose leaves are complete but very stiff, the tail hard, and one tibia is broken. The skull has been removed and cleaned. It is complete, but palatal branches and upper canines are separate and one lower incisor is missing.

Dobson published figures of *stoliczkana* in the Journal of the Asiatic Society of Bengal, 1871, the Monograph of the Asiatic Chiroptera, 1876, and the Catalogue of the Chiroptera, 1878. The latter two were based en the first figure and vary in small details but the original description was never changed, the text remaining the same, though shortened. In so far as could- be seen in the examination of the type, the first figure, published in 1871, is accurate.

These figures have been compared with topotypes of *wheeleri*, alcoholic specimens examined under a microscope, and no differences between the two species were noted.

*Curator of Mammals, Chicago Natural History Museum, Chicago 5, Illinois.

The front edge of the horseshoe is margined by a band of three Ieaves, one with a deep notch in the center across the middle, and one on each side. This band of leaves has below it two leaflets on each side. It agrees with Dobson's description of the horseshoe as "separated from the lip by an underlying fold of membrane; on each side of the horseshoe a double fold of membrane." Osgood stated in the description of wheeleri "nose leaves double, at least laterally." Tate (1941) said `There are two lateral leaflets."

The upper outer edge of the ear in *wheeleri* is doubly emarginate as shown for *stoliczkana* in Dobson's 1871 figure. The bifurcate tips on the fourth and fifth fingers are common to both species. Dobson said the third and fourth were bifurcate but the figure shows the fourth and fifth.

The measurements of *stoliczkana* agree closely with those of *wheeleri*, and sketches of parts of the skull agree in shape with *wheeleri*.

From this evidence it seems clear that *Triaenops wheeleri* Osgood is a synonym of *A sellia stoliczkana* Dobson. Peters described *Phyllorhina trifida* from Burma in June 1871, a month after Dobson's description appeared, and it is here considered a synonym of *A sellia stoliczkana* Dobson.

While the foregoing settles the specific status of this species, its generic position remains in doubt. Tate (1941) suggested that it might belong to an undescribed genus. He compared it with Aselliscus tricuspidatus and found it very close in external characters, except for its longer tail. Through a lapsus wheeleri was said to be smaller "forearm 49 mm. instead of 54 mm." whereas it is really slightly larger with a forearm of 41.6-44.0 mm. instead of 37-40 mm. as in tricuspidatus. Tate also found that the skull of wheeleri differed from tricuspidatus in "possessing a quite large posterior zygomatic eminence" and "in the reduced, compressed form of p2."

These points have been carefully checked and the following differences noted between Aselliscus tricuspidatus and Asellia stoliczkana (T. wheeleri): the latter has slightly longer forearm and tail; three lateral leaflets instead of two; skull with more sloping rostrum and elongate canine bearing portion; upper expansion of zygoma starting about the center, higher, and with front slope slightly concave, while in tricuspidatus this expansion begins near the anterior end, is lower, and the front edge slightly convex; lower premolar two is more compressed by adjoining teeth and is slightly smaller.

A sellia stoliczkana agrees more closely with A selliscus than with any of the other genera in the Hipposiderinae and the differences between

it and *tricuspidatus* appear more specific than generic. It is here considered as belonging to the genus *A selliscus* and its full synonymy is:

A selliscus stoliczkanus Dobson

Asellia stoliczkana Dobson, Proc. Asia. Soc. Bengal, p. 106, May, 1871;
Dobson, Journ. Asia. Soc. Bengal, p. 263, pl. XX, fig. 1, 1871-Penang.
Phyllorhina stoliczkana Dobson, Monog. Asia. Chiropt., p. 61, fig. a, b, 1876;
Dobson, Cat. Chiropt., p. 132, pl. 8, fig. 5, 1878.

Phyllorhina trifida Peters, Proc. Zool. Soc. London, p. 513, fig. 1-3, June 1871; Peters, Monatsbr. Akad. Berlin, p. 315, 1871-Burma.

Triaenops wheeleri Osgood, Field Mus. Nat. Hist., Zool. Ser., 18, p. 224, August 19, 1932-Muong Moun, Tonkin, French Indo-China; Sanborn, Proc. Biol. Soc. Washington, 46, p. 56, 1933-Kweichow, China; Anthony, Field Mus. Nat. Hist., Zool. Ser., 27, p. 80, 1941-Chipwi, Burma

"A sellia" wheeleri Tate, Amer. Mus. Nov., no. 1140, p. 2 (footnote), 1941.

Type locality. Penang Island, west coast of Malay Peninsula.

Type. In Indian Museum, Calcutta, Cat. No. 123a, Reg. No. 8946; adult male, alcohol, skull cleaned; collected 1871 by Dr. F. Stolcizka.

Range. Known from Malay Peninsula, French Indo-China, Burma, and Kweichow, China.

Measurements. Type of stoliczkanus followed by wheeleri in parentheses. Forearm 39.5 mm. (40.0-43.8 mm.); third finger, metacarpal 29.0 (30.5-32.8), first phalanx 13.6 (14.5-14.9), second phalanx 20.2 (20.9-22.9); fourth finger, metacarpal 30.5 (30.6-32.8), first phalanx 10.5 (11.8-12.3), second phalanx 8.5 (9.0-10.5); fifth finger, metacarpal 25.5 (27.0-29.1), first phalanx 12.0 (11.8-12.6), second phalanx 9.3 (8.3-9.9). Tibia 16.8 (18.0-19.1); tail 18.00.

Skull: greatest length 14.4 mm. (14.8-15.0 mm.); condylo-basal length 12.5 (12.8-13.0); palatal length 2.0 (1.9-2.0); rostral width 4.5 (4.4-4.5); interorbital width 2.0 (1.8-1.9); zygomatic width 7.4 (7.4-7.5); width of brain case 6.1 (6.0-6.0); mastoid width 7.0 (7.0-7.2); upper tooth row 4.9 (5.1-5.1); mandible 8.8 (8.7-8.8); lower tooth row 5.2 (5.3-5.4).

LITERATURE CITED

Anthony, H. E.

1941 Mammals collected by the Vernay-Cutting Burma Expedition. Field Mus. Nat. Hist., Zool. Ser., vol. 27, p. 37-123.

Tate, G. H. H.

1941 Remarks on some Old World leaf-nosed bats. Amer. Mus. Nov., no. 1140, p. 1-11.

Natural History Miscellanea, a series of miscellaneous papers initiated in 1946 as an outlet for original articles, more or less technical in nature, one to four pages in length, in any field of natural history. Individual issues, published at irregular intervals, are numbered separately and represent only one field of specialization; e. g., botany, geology, entomology, herpetology, etc. The series is distributed to libraries and scientific organizations with which the Academy maintains exchanges. A title page and index will be supplied to these institutions when a sufficient number of pages to form a volume have been printed. Individual specialists with whom the museum or the various authors maintain exchanges receive those numbers dealing with their particular fields of interest. A reserve is set aside for future exchanges and a supply of each number is available for sale at a nominal price. Authors may obtain copies for their personal exchanges at the prevailing rates for similar reprints.

H. K. Gloyd, Director.

Committee on Publicatsons:

Alfred Emerson, Hanford Tiffany, and C. L. Turner.